



Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax

RF Cable Assemblies Technical Data Sheet

PE3W08176

Configuration

- Connector 1: Limited Detent SMP Male Bulkhead
- Connector 2: SMP Female Right Angle
- Cable Type: RG405

Features

- Max Frequency 18 GHz

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08176 SMP male limited detent bulkhead to SMP female right angle cable using RG405 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMP to SMP cable assembly has a male to female gender configuration with 50 ohm semi-rigid RG405 coax. The PE3W08176 SMP male to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the RG405 cable allows for easier connections in tight spaces. Our RF cable assembly with SMP bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.22	0.284	0.445	0.735	1.12	dB/ft
	0.72	0.93	1.46	2.41	3.67	

Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax PE3W08176](#)



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Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 for the SMP Female connector and 0.05xSQRT(fGHz) dB for the SMP Male connector.

Mechanical Specifications

Cable Assembly

Weight 0.048 lbs [21.77 g]

Cable

Cable Type RG405
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor Material and Plating Copper

Repeated Minimum Bend Radius 0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Male Bulkhead	SMP Female Right Angle
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Connection Method	Limited Detent	
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification		MIL-G-45204

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Limited Detent SMP Male Bulkhead to SMP Female
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PE3W08176

How to Order

Part Number Configuration:

PE3W08176

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W08176-12 = 12 inches long cable
PE3W08176-100cm = 100 cm long cable

Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

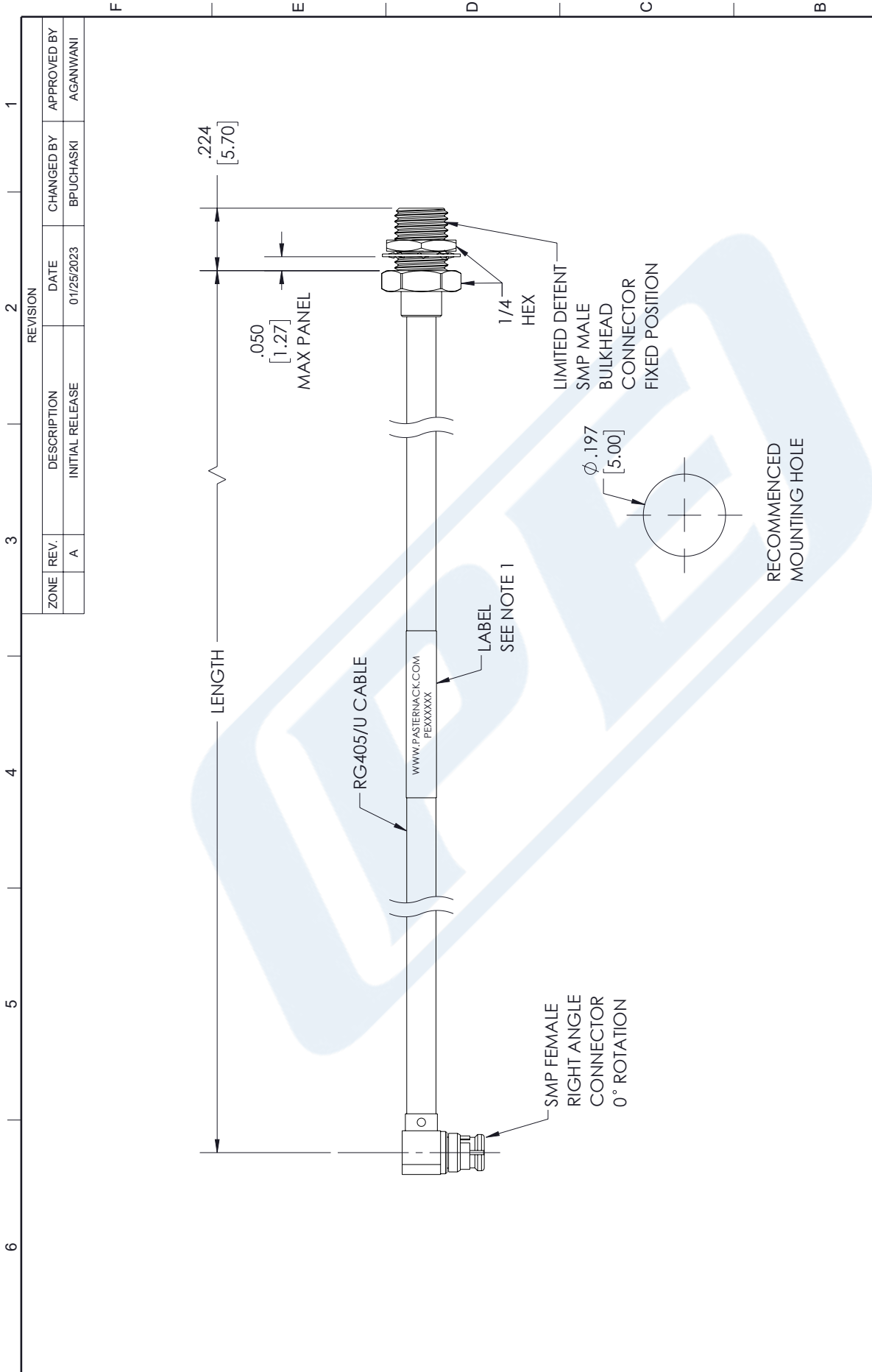
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax PE3W08176](https://www.pasternack.com/limited-detent-smp-male-bulkhead-to-smp-female-cable-using-rg405-pe3w08176-p.aspx)

URL: <https://www.pasternack.com/limited-detent-smp-male-bulkhead-to-smp-female-cable-using-rg405-pe3w08176-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3W08176 CAD Drawing

Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax



ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/25/2023	BPUCHASKI	AGANWANI

 PASTERNAK [®] an INFINITIB brand	Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
	DESCRIPTION: Limited Detent SMP Male Bulkhead to SMP Female Right Angle Cable Using RG405 Coax	

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: .X = ±.2 [.5] FRACTIONS ±.1/32 .XX = ±.02 [.5] ANGLES ± 1° .XXX = ±.005 [.13] CABLE LENGTH TOLERANCES: ≤12 [305] = +1 [25] / -0 >12 [305] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0 ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.	SIZE: A CAGE CODE: 53919 DRAWN BY: BPUCHASKI ITEM NO.: PE3W08176
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NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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